The reach of R.F.Furchgotte and L.J.Ignarro which leads to the "NO theory" has shock the whole world. My invention is a combined patent including pharmacology as well as isolation and purification of Bombyx moriL. In my product, Bombyx moriL accounts for 56%, others 44%. We also adopt WLD resin absorption, other purification technology, and gas chromatography. The biological activity is ensured because all the process is at 85°C. My product has selective effect on cavernous body, increasing cGMP and NO by the inhibition in of PED<sub>5</sub> enzymes. The Doppler test for the maximum and average blood flow in cavernous body also further proved the conclusion of the pharmacological activity.

# (attached table 1)

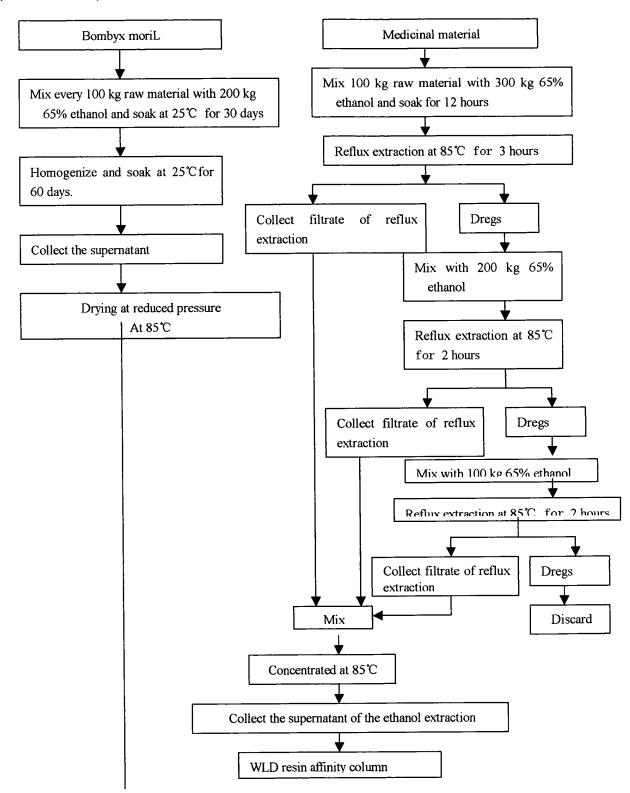
1 Bombyx moriL	2 Rhizoma corydalis	3 Fructus Schisandae		
Saturniidae				
Antheraea Pernyi	Papaveraceae Corydalis	Magnoliaceae Schisandra		
Gnerin-meneville (male adult)	Yanhuso W.T.Wang (dry	Chinensis(Tuncz)Baill (fruit)		
	stem tuber)			
4 Herba Epimedii	5 Cortex Cinnamomi	6 Semen Trlgonellae		
Berberidaceae Epimedium	Lauraceae Cinnamomum	Leguminosae Trigonella		
brevicoram Maxm (falling	Cassia Presl (dry hide)	foenum-graecuml (seed)		
branches)				
7 Semen Cuscutae	8 SemenAllii Tuberosi	9 Fructus Foeniculi		
Convolvu laceae(cuscutoideae)	LiLiaceae Allium	Umbelliferae Foeniculum		
Cuscuta Chinensis Lam (fruit)	tuberosum RottL. (seed)	Vulgaremill (fruit)		
10 Herba Cistanchis	11 Common Panaxoside-	12 Radix Achyranthis-		
Orobanchaceae Cistanche	Ginseng Araliaceae Panax	Bidentatae Amaranthaceae		
deserticola Y.C.Ma (succulent	Ginseng C.A.Mey (dry	Achyranthes bidentata BL.		
stem)	root)	(dry root)		
13 Rhizoma Carculiginis	14 Fructus Cnidii			
Ainary Ilidaceae Curcudigo	Umbelliferae Cnidium			
Orchioides Gaertn(root and	Monnieri(L.)Cuss.(fruit)			
stem)				

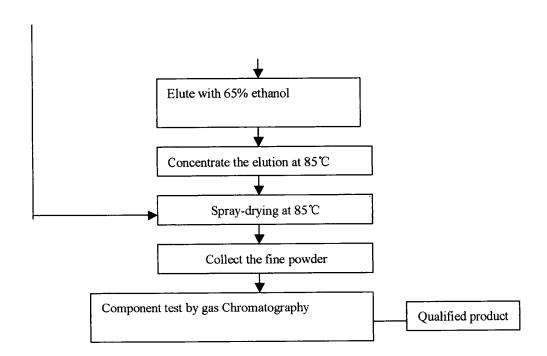
## (attached table 2)

Total: 100%

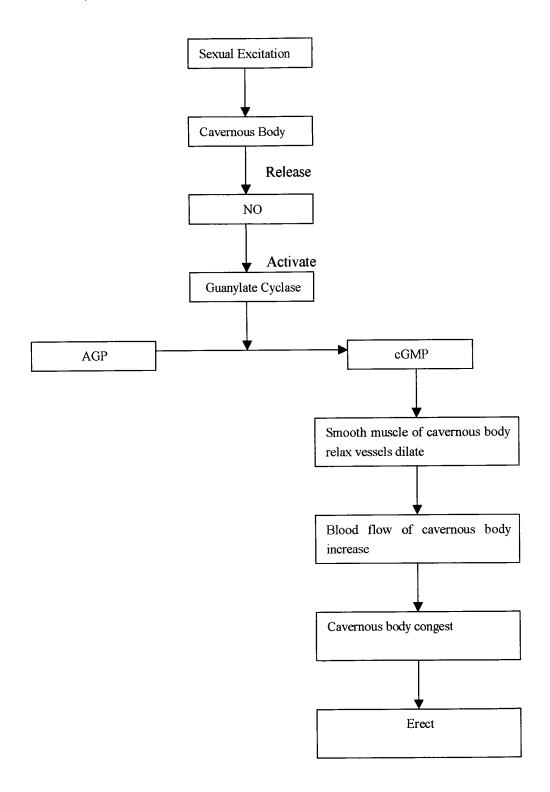
1. Bombyx moriL	56%
2. Rhizoma Corydalis	6.5%
3. Fructus Schisandae	5.5%
4. Herba EpimeiL.	4.4%
5. Cortex Cinnamomi	2.2%
6. Tritonelliae Gyaesin	3.5%
7. Semen Cuscutae	2.0%
8. Semen Alii Tuberosi	2.2%
9. Fructus Foeniculi	1.1%
10. Herba Cistanchis	1.1%
11. Common Panaxoside Ginseng	6.5%
12. Radix Achyranthis Bidentatae	4.4%
13. Rhizoma Curculiginis	3.5%
14. Fructus cnidii	1.1%

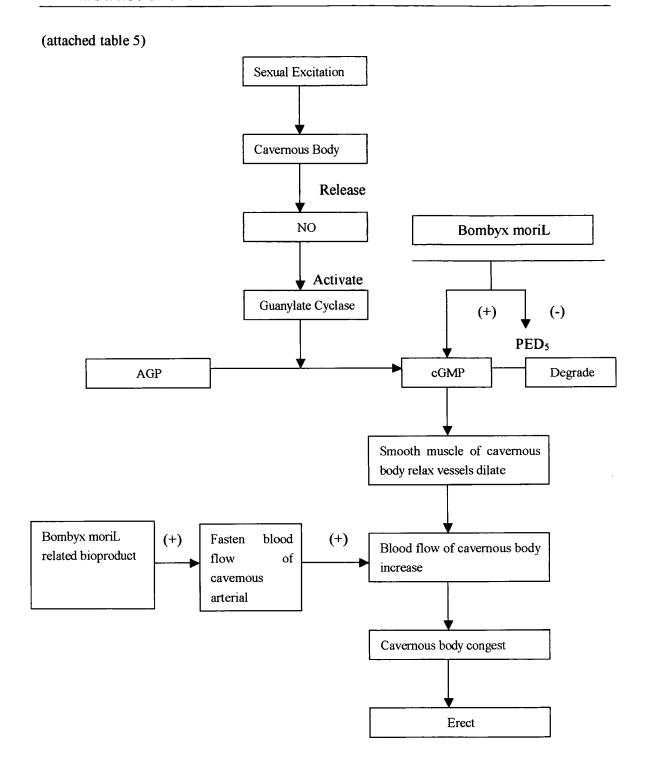
#### (attached table 3)



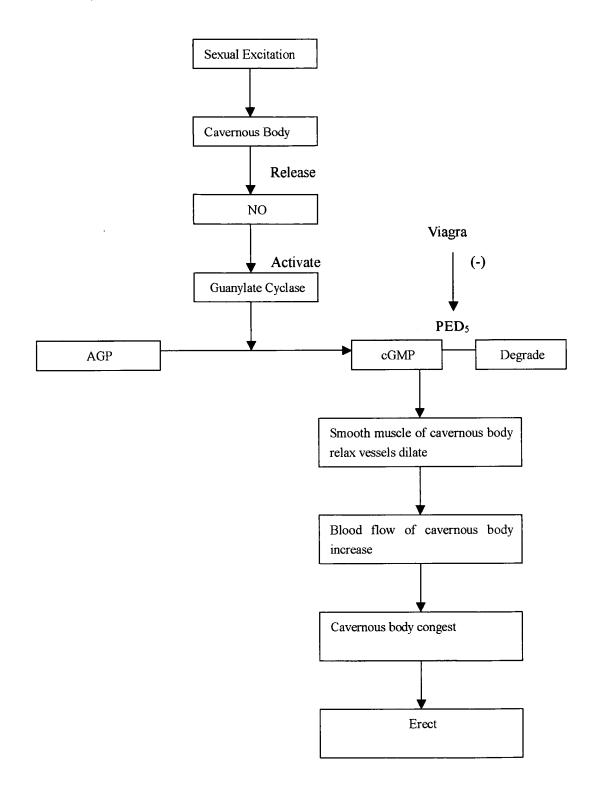


# (attached table 4)





## (attached table 6)



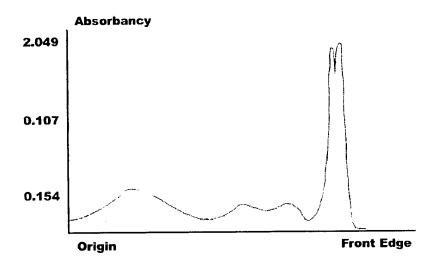
# (attached table 7)

Group	Number of Animal (n)	Mobility of	Mobility of 2nd band X ±SD
Blank Comparison (Normal Saline)	10	0.21±0.01	0.21±0.01
Viagra 6mg/kg	10	0.21±0.01	0.1±0.05
Viagra 12mg/kg	10	0.21±0.01	0.08±0.02
Product mainly consisting of bombyx moriL200mg/kg	10	0.23±0.01	0.09±0.01
Product mainly consisting of bombyx moriL 400mg/kg	10	0.22±0.01	0.08±0.01

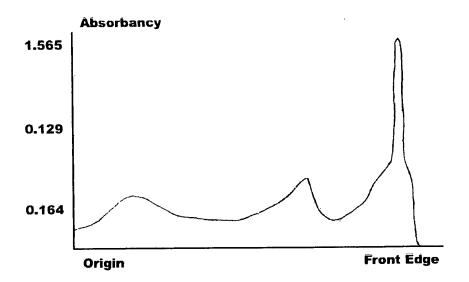
# (attached table 8)

Group	Number of Animal (n)	Peak Area X±SD	P Value
Blank Comparison (Normal Saline)	10	0.495±0.328	
Viagra 6mg/kg	10	0.249±0.126	P<0.05
Viagra 12mg/kg	10	0.198±0.092	P<0.05
Product mainly consisting of bombyx moriL 200mg/kg	10	0.306±0.168	
Product mainly consisting of bombyx moriL 400mg/kg	10	0.215±0.521	P<0.05

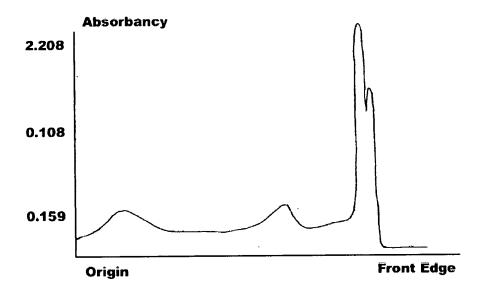
# (attached table 9)



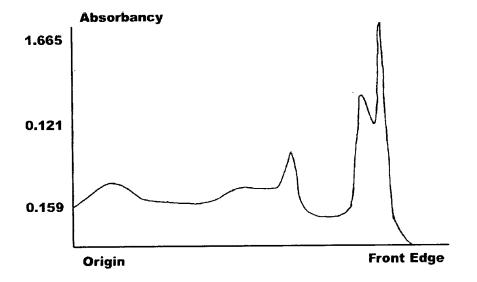
# (attached table 10)



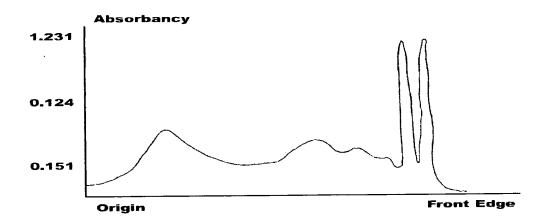
(attached table 11)



(attached table 12)



(attached table 13)



# (attached table 14)

Group	Number of Animals	Pmol/ml X±SD	P	Remarks
· Control Group(NS)	10	2.59±0.48		
Viagra Group 6mg/kg	10	4.53±0.67	P<0.001*	Contrast with control group
Viagra Group 12mg/kg	10	4.42±0.97	P<0.001	Contrast with control group
Product mainly consisting of bombyx moriL Group200mg/kg	10	3.88±1.01	P<0.01*	Contrast with control group
Product mainly consisting of bombyx moriL Group 400mg/kg	10	2.80±0.18	p>0.2	Contrast with control group

<sup>\*</sup>Very significant difference

<sup>\*\*</sup>Significant difference

# (attached table 15)

Group Number of Animais		Pmol/ml X±SD	P	Remarks
Control Group (NS)	10	0.25±0.05		
Viagra Group 6mg/kg	10	0.40±0.26	P<0.1	Contrast with control
Viagra Group 12mg/kg	10	0.53±0.12	P<0.001	Contrast with control
Product mainly consisting of bombyx moriL  Group 200mg/kg	iL 10 0.45±0.17 P<0.01		P<0.01	Contrast with control
Product mainly consisting of bombyx moriL Group 400mg /kg	10	0.43±0.13	P<0.001	Contrast with control

# (attached table 16)

Groups	Dosage (mg/kg)	Anima value* Numbers	NO contents umol/L X±SD	Р
Negative control	0.5 ml of the physical saline solution	10	29.2±5.37	
Viagra low	6	10	44.88±9.47	P<0.01
Viagra high	12	10	48.52±17.95	P<0.05
Product mainly consisting of bombyx moriL low	200	10	41.98±16.11	P<0.05
Product mainly consisting of bombyx moriL high	400	10	42.36±13.04	P<0.05

<sup>\*</sup>NOTE: When compared the NO contents of tested drug groups with the control groups.

### (attached table 17)

			Blood flow rate (cm/s, X±SD)						
Group	Case	Dosage	MAX				MIN		
	Number n		Before administrati on	I hafter administration	2h after administrati on	Before administration	1h after administration	2hafter administrati on	
Product mainly consisting of bombyx moriL	11	800	9.18±2.27	+4.64±2.25***	+2.0±2.19*	1.09±0.70	+0.36±0.67	+0.36±1.03	
Product mainly consisting of bombyx moriL	12	1600	9.25±1.42	+6.75±4.0***	+3.33±2.71*	1.17±0.58	+0.17±0.39	+0.25±0.62	
Viagra	11	25	9.55±2.58	+4.36±2.98***	+2.45±3.78*	1.09±0.30	+0.27±1.01	+0.36±0.81	
Viagra	12	50	9.58±1.08	+5.67±4.31***	+1.75±2.63*	1.25±0.62	+0.17±0.72	+0.17±0.91	

			Blood flow rate (cm/s, X±SD)						
	Case			TAMX			PI, X±SD		
Group Number		Dosage mg	Before administrati on	lh afteradministration	2h after administrati on	Before administration	1h after administration	2h after administrati on	
Product mainly consisting of bombyx moriL	11	800	2.45±1.29	+1.09±0.94**	+0.18±0.98	3.47±1.27	+0.24±1.24	+0.32±1.71	
Product mainly consisting of bombyx moriL	12	1600	2.50±0.67	+1.17±0.83***	+0.42±1.31	3.43±0.74	+0.87±0.63***	+0.45±1.43	
Viagra	11	25	2.64±1.12	+1.36±1.43*	0.18±1.17	3.24±1.02	-0.19±1.16	+0.10±0.85	
Viagra	12	50	2.67±0.78	+1.43±1.27**	0.50±0.80	3.37±0.79	+0.24±0.84	-0.33±0.72	

Contrasted with amount before administration,\*P<0.05, \*\*P<0.01, \*\*\*P<0.001;"+,-"as increasement or decreasement

### (attached table 18)

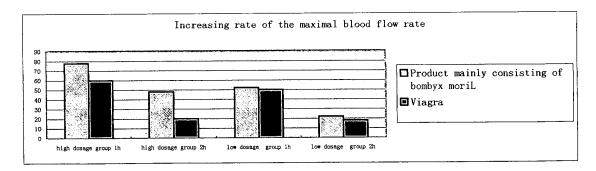


Chart 1 the influence of product mainly consisting of bombyx moriL and viagra on the cavernous arteral maximal blood flow rate of normal females

### (attached table 19)

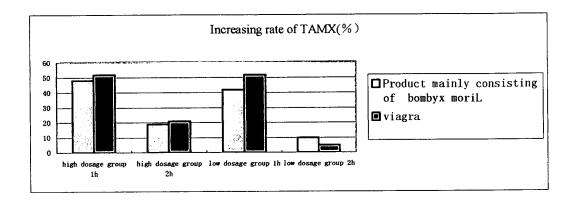
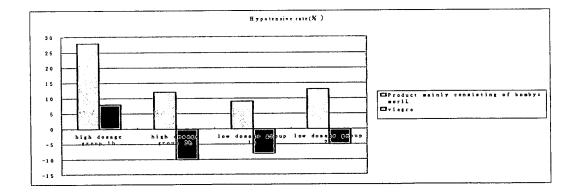


Chart 2 the influence of product mainly consisting of bombyx moriL and viagra on the cavernous arterial average blood flow rate of normal males

### (attached table 20)

Chart3 the influence of Product mainly consisting of bombyx moriL and viagra on the cavernous arterial pulsation index



(attached table 21)

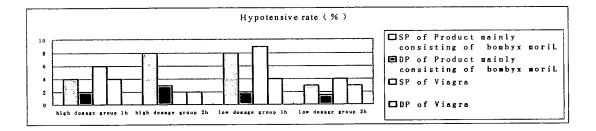


Chart 4 the influence of product mainly consisting of bombyx moriL and viagra on the blood pressure

### (attached table 22)

			Blood Pressure (mmHg, X±SD)						
		Case	Systolic Pressure			Diastolic Pressure			
Group Dosage numbe mg r	r	Before administrati on	Ih after administratio n	2h after administrtion	Before administration	1h after administration	2h after administrtion		
Product mainly consisting of bombyx moriL	800	11	118.6±5.9	-9.1±6.6**	+3.2±6.0	81.4±6.0	-1.8±5.6	-1.4±4.5	
Product mainly consisting of bombyx moriL	1600	12	120.0±9.4	-5.5±6.0*	+9.5±9.3**	78.5±10.5	-2.0±6.8	-2.5±6.3	
Viagra	25	11	120.5±10.6	-10.0±6.3**	-3.5±6.2	81.8±6.4	-2.7±4.7	-1.8±4.6	
Viagra	50	12	117.7±9.8	-7.3±6.1**	-2.7±5.6	78.6±10.7	-3.4±7.2	-2.0±6.4	

Contrasting with that before administraton, \*P<0.05, \*\*P<0.01, \*\*\*P<0.001; "+,

-"expressed as increasement or decreasement.